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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,528	08/22/2003	Shunichi Matsushita	238546US8CIP	8105
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET		EXAMINER		
	HELLNER, MARK			
ALEXANDRIA, VA 22314		·	ART UNIT	PAPER NUMBER
			3663	
			NOTIFICATION DATE	DELIVERY MODE
			06/06/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)				
	10/645,528	MATSUSHITA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Mark Hellner	3663				
The MAILING DATE of this communication app						
Period for Reply	•					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION (136(a). In no event, however, may a rwill apply and will expire SIX (6) MON e, cause the application to become AE	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 05/2	<u>21/2007</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowa	ance except for formal matt	ers, prosecution as to the merits is				
closed in accordance with the practice under b	Ex parte Quayle, 1935 C.D). 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>5-14,17-22,24-28,30-70,73,74 and 7</u>	6-79 is/are pending in the	application.				
, —	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) <u>5-14,17-22,24-28,30-35,73,74 and 76</u>						
6)⊠ Claim(s) <u>36-39,50,51 and 64</u> is/are rejected.		•				
7) Claim(s) 40-49, 52-63 and 65-70 is/are object	ed to.					
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	er					
10) The drawing(s) filed on is/are: a) acc		by the Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct						
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attached	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in A prity documents have been au (PCT Rule 17.2(a)).	Application No received in this National Stage				
Address						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Mail Date nformal Patent Application				

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DETAILED ACTION

Response to Amendment

Applicant's after final amendment of 05/21/2007 leaves all pending claims in allowable status. However, a review of all claims indicates that the examiner has made the following errors:

No argument was presented in applicant's response of 09/11/2006 with respect to the patentability of method claim 36.

The claim limitations argued are not present in claim 36.

As a result, the examiner is making the following non-final action to clarify the record.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 36 is rejected under 35 U.S.C. 102(e) as being anticipated by Islam (6,052,393).

Figure 20a of Islam discloses a depolarized source of pumping light comprising: at least one source of pumping light (230), the source being configured (Linearly Polarized) to produce pumping light having a predominant polarization state; at least

one depolarizer (240) comprising a birefringent optical component (polarization maintaining fiber) having a principle axis oriented at 45 degrees (launch at 45) with respect to the predominant polarization state and coupled to receive pumping light; and a Raman gain medium (Raman Amplifier) configured to receive the pumping light and amplify signals via Raman scattering.

The structure recited above directly reads on lines 1-8 of claim 36.

Lines 9-12 of claim 36 recite: "determining said degree of polarization of a pumping light source in accordance with a Raman gain medium (this reads on the fact that the Islam pump has some unspecified degree of polarization and is taught to be coupled to a Raman gain medium), and selecting a light source having the determined degree of polarization so as to set a polarization degree of gain to a level lower than a predetermined polarization degree of gain value" (this language read on the coupling of the depolarized pump of Islam being coupled to the Raman gain medium medium because a depolarized pump reduces polarization dependent gain).

It is the examiners position that claim 36 broadly reads on Islam.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 37-39, 50, 51 and 64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Islam.

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Claims 37 – 39, 50, 51and 64 recite known fiber types and pumping directions used in the combination of a pumps source to a Raman gain medium.

As a result, these claims would have been suggested to the skilled artisan by the teaching of figure 20a of Islam.

Claims 40 - 49 and 52 - 63 and 65 - 70 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 5-14, 17-22, 24-28, 30-35, 73, 74 and 76-79 allowed.

Any inquiry concerning this communication should be directed to Mark Hellner at telephone number 571 272 6981.

Mark Hellner

Primary Examiner

Mark Hollin

AU 3663